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                                                                                                                                                         Length 19;
                                                                                                                                                                                                                   0; Indels
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                                                                                                                                                        DB 13;
                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CURRENT APPLICATION NUMBER: US/10/714,333A
                                                                                                                                                          Score 19;
                                                                                                                                                                                                                                                                                                                                                                                                Sequence 177846, Application US/10714333A
                                                                                               OTHER INFORMATION: SIRNA sense strand
                                                                                                                                                                                                                                                        26 GGTATGAAAGCCAGCTACA 44
                                                                                                                                                                                                                                                                                                 1 GGUAUGAAAGCCAGCUACA 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Khvorova, Anastasia
                                                                                                                                                                           100.0%;
                                                                                                                                                                                                                                                                             Publication No. US20070031844A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Marshall, William
                                                                                                                                                         13.2%;
                                                                                                                                                                                             84.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Scaringe, Stephen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Reynolds, Angela
                                                                                                                                                                                                                   16; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Dharmacon, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Leake, Devin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILE REFERENCE: 13499US
                 ORGANISM: Homo sapiens
                                                                           LOCATION: (1)...(19)
                                                                                                                                                                                               Best Local Similarity
                                                      NAME/KEY: misc_RNA
                                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                             US-10-714-333A-177846
                                                                                                                  US-10-940-892-2571350
                                                                                                                                                                              Score over Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT:
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TYPE: RNA
                                                                                                                                                         Query Match
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                                      FEATURE:
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LENGIH: 19

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                                                                                                                                                                                                                                                                                                                                    0;
                                                                                                                                                                                                                                                                                                                                    4; Mismatches
                                                                                                                                                                                                                                                                        Score 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 177941, Application US/10714333A
                    PRIOR APPLICATION NUMBER: 60/502,050
                                                            PRIOR APPLICATION NUMBER: 60/426,137
                                                                                                                                                                                                                                                                                                                                                                             119 AATGGGAGTTTCCAAGAGA 137
                                                                                                                                                                                                                                                                                                                                                                                                                    1 AAUGGGAGUUUCCAAGAGA 19
CURRENT FILING DATE: 2003-11-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Khvorova, Anastasia
                                                                                                                                                                                                                                                                                          100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                Publication No. US20070031844A1
                                        PRIOR FILING DATE: 2003-09-10
                                                                                                                                                                                                                                                                       13.2%;
                                                                                PRIOR FILING DATE: 2002-11-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Marshall, William
                                                                                                    NUMBER OF SEQ ID NOS: 1591911
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Reynolds, Angela
                                                                                                                                                                                                                                                                                                                                    Matches 15; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Dharmacon, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Leake, Devin
                                                                                                                                                                                                           ORGANISM: Homo sapiens
                                                                                                                         SOFIWARE: Proprietary
                                                                                                                                                                                                                                                                                                               Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
                                                                                                                                                                                                                              US-10-714-333A-177846
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-10-714-333A-177941
                                                                                                                                                                                                                                                                                            Score over Length
                                                                                                                                              SEQ ID NO 177846
                                                                                                                                                                  LENGIH: 19
                                                                                                                                                                                       TYPE: RNA
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                     TITLE OF INVENTION: Functional and Hyperfunctional siRNA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                 CURRENT APPLICATION NUMBER: US/10/714,333A
                                                                                                                                                                                                                                                                                                                                                                                                 Score 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 182471, Application US/10714333A
                                                                                                               PRIOR APPLICATION NUMBER: 60/502,050
                                                                                                                                                              PRIOR APPLICATION NUMBER: 60/426,137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 119 AATGGGAGTTTCCAAGAGA 137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 AAUGGGAGUUUCCAAGAGA 19
                                                                                         CURRENT FILING DATE: 2003-11-14
                                                                                                                                                                                                                                                                                                                                                                                                                      100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Publication No. US20070031844A1
                                                                                                                                                                                                                                                                                                                                                                                                                                          78.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Scaringe, Stephen
                                                                                                                                      PRIOR FILING DATE: 2003-09-10
                                                                                                                                                                                                                                                                                                                                                                                                13.2%;
                                                                                                                                                                                   PRIOR FILING DATE: 2002-11-14
                                                                                                                                                                                                            NUMBER OF SEQ ID NOS: 1591911
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Dharmacon, Inc.
                                           FILE REFERENCE: 13499US
                                                                                                                                                                                                                                                                                                                            ORGANISM: Homo sapiens
                                                                                                                                                                                                                               SOFTWARE: Proprietary
                                                                                                                                                                                                                                                                                                                                                                                                                                             Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-10-714-333A-182471
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                                                                                                                                                                                                                                                        SEQ ID NO 177941
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Gaps
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                                                                                                  IIILE OF INVENTION: Functional and Hyperfunctional siRNA
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                                                                                                                                           CURRENT APPLICATION NUMBER: US/10/714,333A
                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 19;
                                                                                                                                                                                                                           PRIOR APPLICATION NUMBER: 60/426,137
                                                                                                                                                                                    PRIOR APPLICATION NUMBER: 60/502,050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 GUGACCGGCUCCUCAGAUA 19
                                                                                                                                                               CURRENT FILING DATE: 2003-11-14
 Khvorova, Anastasia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           55 GIGACCGCTCCTCAGAIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                         100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR FILING DATE: 2003-09-10
                                                                                                                                                                                                                                                                                                                                                                                                                                       13.2%;
                                                          Marshall, William
                                                                                                                                                                                                                                                PRIOR FILING DATE: 2002-11-14
                                                                                 Scaringe, Stephen
                                                                                                                                                                                                                                                                    NUMBER OF SEQ ID NOS: 1591911
                   Reynolds, Angela
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   15; Conservative
                                         Leake, Devin
                                                                                                                        FILE REFERENCE: 13499US
                                                                                                                                                                                                                                                                                                                                                                          ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                         SOFIWARE: Proprietary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                            US-10-714-333A-182471
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score over Length
                                                                                                                                                                                                                                                                                                             SEQ ID NO 182471
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                                                                                 APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
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APPLICANT:
                                                            APPLICANT:
                                      APPLICANT:
                   APPLICANT:
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US-10-714-333A-182476

RESULT 19

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                                                                                                                                                                                                                 CURRENT APPLICATION NUMBER: US/10/714,333A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 19;
Sequence 182476, Application US/10714333A
                                                                                                                                                                                                                                                                                              PRIOR APPLICATION NUMBER: 60/502,050
                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION NUMBER: 60/426,137
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 UGAAUAUGAUCUCAAAUGG 19
                                                                                                                                                                                                                                                                      CURRENT FILING DATE: 2003-11-14
                                                                                         Khvorova, Anastasia
                      Publication No. US20070031844A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         100.0%;
                                                                                                                                                         Marshall, William
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR FILING DATE: 2002-11-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     13.2%;
                                                                                                                                                                                                                                                                                                                   PRIOR FILING DATE: 2003-09-10
                                                                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQ ID NOS: 1591911
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                68.4%;
                                                                                                                                                                                Scaringe, Stephen
                                                                                                             Reynolds, Angela
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      13; Conservative
                                                                 APPLICANT: Dharmacon, Inc.
                                                                                                                                      Leake, Devin
                                                                                                                                                                                                                          FILE REFERENCE: 13499US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                            SOFIWARE: Proprietary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Best Local Similarity
                                            GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-10-714-333A-182476
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                                                                                                                                                                                                                                                                                                                                                                                                                                SEQ ID NO 182476
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                                                                                         APPLICANT:
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                    Sequence 182482, Application US/10714333A
                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION NUMBER: 60/426,137
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                                                                                                           Khvorova, Anastasia
                                          Publication No. US20070031844A1
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                                                                                                                                                                           Marshall, William
                                                                                                                                                                                               Scaringe, Stephen
                                                                                                                                                                                                                                                                                                                                                                           PRIOR FILING DATE: 2002-11-14
                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQ ID NOS: 1591911
                                                                                                                                Reynolds, Angela
                                                                                     Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              15; Conservative
                                                                                                                                                      Leake, Devin
                                                                                                                                                                                                                                          FILE REFERENCE: 13499US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM: Homo sapiens
                                                                                    APPLICANT: Dharmacon,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Best Local Similarity
                                                               GENERAL INFORMATION:
US-10-714-333A-182482
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RESULT 20

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IIILE OF INVENTION: Functional and Hyperfunctional siRNA
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117 CAAATGGGAGTTTCCAAGA 135
                                                   1 CAAAUGGGAGUUUCCAAGA 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CURRENT FILING DATE: 2003-11-14
                                                                                                                                                                                                                                                                                      Khvorova, Anastasia
                                                                                                                                                                                                          Publication No. US20070031844A1
                        PRIOR FILING DATE: 2003-09-10
                                                                                                                                                                                                                                                                                                                                                                  Marshall, William
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                                                                                                                                                                                                                                                                                                                                                                                           Scaringe, Stephen
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                                                                                                                                                                                                                                                                                                                 Reynolds, Angela
                                                                                                                                                                                                                                                            APPLICANT: Dharmacon, Inc.
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                                                                                                                                                                                                                                                                                                                                                                                                                                             FILE REFERENCE: 13499US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SOFIWARE: Proprietary
                                                                                                                                                                                                                                   GENERAL INFORMATION:
                                                                                                                                                       US-10-714-333A-182490
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 DB 17; Length 19;
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                                                                  6; Mismatches
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 Score 19;
                                                                                                                                                                                                                                                                    Sequence 182505, Application US/10714333A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION NUMBER: 60/426,137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION NUMBER: 60/502,050
                                                                                                          84 CTACGTTGATTTCAGAGAA 102
                                                                                                                                                        1 CUACGUUGAUUUCAGAGAA 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CURRENT FILING DATE: 2003-11-14
                                                                                                                                                                                                                                                                                                                                                           Khvorova, Anastasia
                    100.0%;
                                                                                                                                  Publication No. US20070031844A1
                                        68.48;
13.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR FILING DATE: 2003-09-10
                                                                                                                                                                                                                                                                                                                                                                                                                            Marshall, William
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR FILING DATE: 2002-11-14
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                                                                                                                                                                                                                                                                                                                                                                                 Reynolds, Angela
                                                                  13; Conservative
                                                                                                                                                                                                                                                                                                                                      APPLICANT: Dharmacon, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                       Leake, Devin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILE REFERENCE: 13499US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOFIWARE: Proprietary
                                          Best Local Similarity
                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
                                                                                                                                                                                                                                              US-10-714-333A-182505
                       Score over Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQ ID NO 182505
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 Query Match
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                                                                  Matches
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Gaps
                                                                                                                                              0;
                                                                                Length 19;
                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 IIILE OF INVENTION: Methods and Compositions for Improving
                                                                              DB 17;
                                                                                                                                              Mismatches
                                                                                Score 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CURRENT APPLICATION NUMBER: US/10/940,892
                                                                                                                                                                                                                                                                                                                                     Sequence 1847772, Application US/10940892
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       siRNA Functionality
                                                                                                                                                                                       96
                                                                                                                                                                                                                               1 GUACUUCUACGUUGAUUUC 19
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                                                                                                                                                                                                                                                                                                                                                                                                                        Khvorova, Anastasia
                                                                                                                                                                                       78 GIACTICIACGIIGAIIIC
                                                                                                    100.0%;
                                                                                                                                                                                                          Publication No. US20050255487A1
                                                                                13.2%;
                                                                                                                       52.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Marshall, William
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Scaringe, Stephen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQ ID NOS: 2675299
                                                                                                                                                                                                                                                                                                                                                                                                                                           Reynolds, Angela
                                                                                                                                              10; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Dharmacon, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Leake, Devin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Read, Steven
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILE REFERENCE: 13608PCT
                   ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CURRENT FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SOFTWARE: Proprietary
                                                                                                                        Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
                                       US-10-714-333A-182505
                                                                                                                                                                                                                                                                                                                 US-10-940-892-1847772
                                                                                                      Score over Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CECENOL OTA AT CHO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT:
TYPE: RNA
                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT:
                                                                                                                                                Matches
                                                                                                                                                                                                                                                                                            RESULT 23
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